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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/086,220	02/28/2002	Tom Kusic	8010	
75	90 02/24/2004		EXAMINER	
TOM KUSIC G.P.O. BOX 932			HOLZEN, STEPHEN A	
MELBOURNE	_		ART UNIT	PAPER NUMBER
AUSTRALIA			3644	-
			DATE MAILED: 02/24/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)				
Office Action Commence	10/086,220	KUSIC, TOM				
Office Action Summary	Examiner	Art Unit				
	Stephen A. Holzen	3644				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).				
	· action is non-final.					
· <u> </u>		and to the	a marita ia			
3) Since this application is in condition for allowar closed in accordance with the practice under E			e ments is			
Disposition of Claims	•					
4) Claim(s) <u>4-15,22-25,30,32,36,38,39,42,53-58</u> a						
4a) Of the above claim(s) <u>7-15,22-25,30,32,36</u> .	<u>38,39,42,53-58 and 86</u> is/are witl	ndrawn from cons	ideration.			
5) Claim(s) is/are allowed.						
· <u> </u>	6) Claim(s) <u>4-6</u> is/are rejected.					
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	r election requirement					
Application Papers	dication requirement.					
9) The specification is objected to by the Examine	r					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a	)-(d) or (f).				
<ul> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the prioring</li> <li>application from the International Bureau</li> </ul>	s have been received in Applicati rity documents have been receive I (PCT Rule 17.2(a)).	ed in this National	Stage			
* See the attached detailed Office action for a list of the certified copies not received.  13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.  37 CFR 1.78.						
<ul> <li>a)  The translation of the foreign language provisional application has been received.</li> <li>14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.</li> </ul>						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4)  Interview Summary 5)  Notice of Informal P 6)  Other:					

Application/Control Number: 10/086,220 Page 2

Art Unit: 3644

## **DETAILED ACTION**

## Response to Arguments

- 1. Applicant's arguments filed 12/29/03 have been fully considered but they are not persuasive.
- 2. The applicant has attempted to amend claims that were previously withdrawn from consideration. The only claims still under consideration are claims 4-6. The examiner has noted the cancellation of some of the claims. These have officially been removed from the case. The examine will not enter the amendment to the withdrawn claims.
- 3. Status of the claims:
  - a. Pending: 4-15,22-25,30,32,36,38,39,42,53-58,86
  - b. Cancelled: 1-3,16-21,26-29,31,33-35,37,70,41,43-52,59-85,87-89
  - c. Withdrawn from consideration: 7-15,22-25,30,32,36,38,39,42,53-58,86
  - d. Only claims currently considered: 4-6

## Information Disclosure Statement

4. The listing of references in the reply is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification or office action reply but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Application/Control Number: 10/086,220

Art Unit: 3644

1. Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Serriades (3,282,534) in view of Brady (3,985,320) and further in view of Perrin (1,491,310). Serriades discloses a main body, tandem lifting mechanism, primary and secondary lifting mechanisms, an engine assembly, where the primary lifting mechanism comprises a rotor, blades, and blades (inherent that jet engines have rotors, blades as well as stators), and a second lifting mechanism comprising a jet engine attached to a second tilt enabling joint. An aspect of the claim that Serriades does not disclose is the ability to have the primary and secondary tilting mechanisms tilt in opposite directions. However Brady discloses that it is known in the hovering art to allow a tilting mechanism to tilt in opposite directions to enable the aircraft to sustain its stability (see Figure 1). It would have been obvious at the time of the invention to one having ordinary skill in the art to include the teachings of Brady into the device of Serriades for the purpose of increase the safety and stability of the Serriades' aircraft. Another aspect of the claim that Serriades in view of Brady does not disclose is the "controlled tilting of the primary lifting mechanisms in lateral direction relative to the main body of the aircraft able to occur during flight of the aircraft." Perrin (1,491,310) however teaches that it is well known in the art to rotate a primary lifting mechanism laterally. It would have been obvious at the time of the invention to one having ordinary skill in the art to include the teachings of Perrin into the device of Serriades in view of Brady to increase the craft's mobility.

Page 3

Application/Control Number: 10/086,220

Art Unit: 3644

Re - Claims 5 and 6: Serriadies as applied to claim 4 above does not disclose a turbo jet or a turbo fan however it would have been obvious to use one of these apparatus because what is shown in the references and what is being claimed are "art recognized equivalents."

Page 4

5. Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Perrin (1,491,310) in view of ordinary skill in the art. Perrin discloses an aircraft with a main body, a primary lifting mechanisms and a secondary lifting mechanism, which main body has a forward end and an aft end, with the primary lifting mechanisms and the secondary lifting mechanism connected to the main body of the aircraft in tandem order, and which primary lifting mechanisms comprise a rotor, and engine assembly and a plurality of blades, and which engine assembly is able to rotate the rotor, with the blades connected to the rotor such that when the rotor is rotated by the engine assembly air can be forced in a downward direction by means of the blades rotating around the rotor, with the primary lifting mechanism able to exert an upward force on the forward end of the main body of the aircraft by forcing air in a downward direction by way of the blades rotating around the rotor, and which primary lifting mechanism is connected to the main body of the aircraft by a tilt enabling joint such that during flight of the aircraft the primary lifting mechanism can be tilted in a plurality of directions and angles relative to the main body of the aircraft, in a controlled manner, and such that controlled tilting of the primary lifting mechanisms in lateral direction relative to the main body of the aircraft is able to occur during flight of the aircraft and such that a direction

Art Unit: 3644

of travel of the aircraft during flight can be altered by altering the lateral direction of angle of tile of the primary lifting mechanisms relative to the main body of the aircraft, and which said tilt enabling joint is a primary tilt enabling joint, and which secondary lifting mechanism is connected to the main body of the aircraft by an additional tilt enabling joint, which said additional tilt enabling joint is a secondary tilt enabling joint, and which secondary lifting mechanism is connected to the main body of the aircraft by the secondary tilt enabling joint such that during flight of the aircraft other secondary lifting mechanism can be tilted in a plurality of the direction and angles relative to the main body of the aircraft, in a controlled manner, and such that the secondary lifting mechanisms can be tilted in lateral directions relative to the main body during flight of the aircraft and such that a direction of travel of the air during flight can be altered by altering the lateral direction or angles of tilt of the secondary lifting mechanisms relative to the main body, and which secondary tilt enabling joint is such that the secondary lifting mechanism can be tilted in a controlled manner in a lateral direction with respect to the main body of the aircraft during flight of the aircraft that is opposite to a lateral direction that the primary lifting mechanisms can be tilted in with respect to the main body of the aircraft by means of the primary tilt enabling joint during the flight of the aircraft, with the primary tilt enabling joint and the secondary tilt enabling joint connected to the main body of the aircraft, and with the aircraft able to achieve flight by means of upward force exerted on the main body of the aircraft by the primary lifting mechanism thought the primary tilt enabling joint and an upward force exerted on the main body of the aircraft by the secondary lifting mechanism through the secondary tilt enabling joint

Application/Control Number: 10/086,220

Art Unit: 3644

while the primary lifting mechanism and the secondary lifting mechanism are maintained

in tandem order. (see Figures 1 and 3). Perrin does not disclose a jet engine.

However it would have been obvious to one having ordinary skill in the art to use a jet

engine attached to the tilt-enabling joint because a jet engine and a bladed rotor have

attained because what is shown in the references and what is being claimed are "art

recognized equivalents."

Re - Claims 5 and 6: Perrin does not disclose a turbo jet or a turbo fan, however

it would have been obvious to use one of these apparatus because what is shown in the

references and what is being claimed are "art recognized equivalents."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Stephen A. Holzen whose telephone number is 703-

308-2484. The examiner can normally be reached on M-F 7:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Charles T. Jordan can be reached on 703-306-4159. The fax phone

number for the organization where this application or proceeding is assigned is 703-

872-9326.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-306-

4174.

PETER M. POUL

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Page 6

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 3600

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